

Notice of Allowability

Application No.

09/862,439

Examiner

Sanh D Phu

Applicant(s)

KANEDA ET AL.

Art Unit

2682

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/29/04.
2. ☒ The allowed claim(s) is/are 1,4-6,8-11.
3. ☒ The drawings filed on 23 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

REASONS FOR ALLOWANCE

1. This Office Action is responsive to the Amendment filed on 06/24/04.
2. Claims 1, 4-6 and 8-11 are allowed.
3. The following is an examiner's statement of reasons for allowance:

As per independent claim 1, none of prior art of record teaches or suggests an wireless communication apparatus as claimed. Nohara et al (5,428,832), previously cited, fails to teach the limitation "said another wireless communication apparatus generates a signal inverted from an interference wave signal generated by using said multipath detection information and sends the inverted signal and a send signal to said wireless communication apparatus via the wireless network, and said wireless communication apparatus receives the inverted signal and the send signal so that an interference is canceled by the inverted signal". It would not have been obvious for a person skilled in the art to implement Nohara et al system in view of other prior art of record in order to lead such implementation to the claimed invention.

As per independent claim 4, none of prior art of record teaches or suggests an wireless communication apparatus as claimed. Nohara et al fails to

teach the limitation "said interference wave detection part includes a filter part which filters a synthesized wave of said multipath component and said send wave; and an interference wave signal generation which generates an interference wave signal corresponding to that in said wireless communication apparatus at the other end by comparing output signal from said filter part and said send wave". It would not have been obvious for a person skilled in the art to implement Nohara et al system in view of other prior art of record in order to lead such implementation to the claimed invention.

As per independent claim 8, none of prior art of record teaches or suggests an wireless communication method as claimed. Nohara et al fails to teach the limitation "sending from a wireless communication apparatus a signal which cancels a multipath component in another wireless communication apparatus to said another wireless communication apparatus with a send signal via a wireless network, wherein said signal which cancels said multipath component is a signal inverted from an interference wave signal generated by using multipath detection information sent from said another wireless communication apparatus". It would not have been obvious for a person skilled

in the art to implement Nohara et al method in view of other prior art of record in order to lead such implementation to the claimed invention.

As per independent claim 9, none of prior art of record teaches or suggests an wireless communication method as claimed. Nohara et al fails to teach the limitation "said signal for canceling said multipath component is a signal inverted from an interference wave signal generated by using mulitpath detection information sent from said first wireless communication apparatus". It would not have been obvious for a person skilled in the art to implement Nohara et al method in view of other prior art of record in order to lead such implementation to the claimed invention.

As per independent claim 10, none of prior art of record teaches or suggests an wireless communication apparatus as claimed wherein the apparatus comprises a multipath component canceling signal generation part and a send part, in associated with limitations recited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

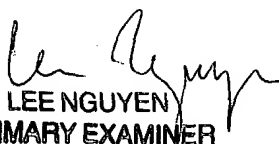
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D Phu whose telephone number is (703) 305-8635. The examiner can normally be reached on 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-301-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-8635.

Sanh Phu
Examiner
Art Unit 2682

Sanh Phu


LEE NGUYEN
PRIMARY EXAMINER